
NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFFFFFF
NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFFFFFF
NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFFFFFF
NNN	NNN		CCC	NNN	NNN	FFF
NNN	NNN		CCC	NNN	NNN	FFF
NNN	NNN		CCC	NNN	NNN	FFF
NNNNNN	NNN		CCC	NNNNNN	NNN	FFF
NNNNNN	NNN		CCC	NNNNNN	NNN	FFF
NNNNNN	NNN		CCC	NNNNNN	NNN	FFF
NNN NNN NNN	NNN		CCC	NNN NNN NNN	NNN	FFFFFFF
NNN NNN NNN	NNN		CCC	NNN NNN NNN	NNN	FFFFFFF
NNN NNN NNN	NNN		CCC	NNN NNN NNN	NNN	FFFFFFF
NNN NNNNNNN	NNN		CCC	NNN NNNNNNN	NNN	FFF
NNN NNNNNNN	NNN		CCC	NNN NNNNNNN	NNN	FFF
NNN NNNNNNN	NNN		CCC	NNN NNNNNNN	NNN	FFF
NNN NNN	NNN		CCC	NNN NNN	NNN	FFF
NNN NNN	NNN		CCC	NNN NNN	NNN	FFF
NNN NNN	NNN		CCC	NNN NNN	NNN	FFF
NNN NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFF
NNN NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFF
NNN NNN	NNN		CCCCCCCCCCCC	NNN	NNN	FFF

FILEID**CNFSEND

c 1

CCCCCCCC	NN	NN	FFFFFFFFF	SSSSSSS	EEEEEEEEE	NN	NN	DDDDDDDD		
CCCCCCCC	NN	NN	FFFFFFFFF	SSSSSSS	EEEEEEEEE	NN	NN	DDDDDDDD		
CC	NN	NN	FF	SS	EE	NN	NN	DD	DD	
CC	NN	NN	FF	SS	EE	NN	NN	DD	DD	
CC	NNNN	NN	FF	SS	EE	NNNN	NN	DD	DD	
CC	NNNN	NN	FF	SS	EE	NNNN	NN	DD	DD	
CC	NN	NN	NN	FFFFFFF	SSSSSS	EEEEEEEEE	NN	NN	DD	DD
CC	NN	NN	NN	FFFFFFF	SSSSSS	EEEEEEEEE	NN	NN	DD	DD
CC	NN	NNNN	FF	SS	EE	NN	NNNN	DD	DD	
CC	NN	NNNN	FF	SS	EE	NN	NNNN	DD	DD	
CC	NN	NN	FF	SS	EE	NN	NN	DD	DD	
CC	NN	NN	FF	SS	EE	NN	NN	DD	DD	
CCCCCCCC	NN	NN	FF	SSSSSSS	EEEEEEEEE	NN	NN	DDDDDDDD	...	
CCCCCCCC	NN	NN	FF	SSSSSSS	EEEEEEEEE	NN	NN	DDDDDDDD	...	

```
1 0001 0 %TITLE 'DECnet Ethernet Configurator Module'
2 0002 0 MODULE CNFSEND
3 0003 0 (
4 0004 0 LANGUAGE (BLISS32),
5 0005 0 IDENT = 'V04-000'
6 0006 1 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1 ****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
12 0012 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
13 0013 1 * ALL RIGHTS RESERVED.
14 0014 1 *
15 0015 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
16 0016 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
17 0017 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
18 0018 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
19 0019 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
20 0020 1 * TRANSFERRED.
21 0021 1 *
22 0022 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
23 0023 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
24 0024 1 * CCRPORATION.
25 0025 1 *
26 0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *
30 0030 1 ****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1 FACILITY: DECnet Configurator Module (NICONFIG)
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1
38 0038 1 This module contains the routines to buffer and send NICE
39 0039 1 response messages to the processes which interrupt with requests.
40 0040 1
41 0041 1 ENVIRONMENT: VAX/VMS Operating System
42 0042 1
43 0043 1 AUTHOR: Bob Grosso, CREATION DATE: 18-Jan-1982
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 --
```

```
49      0048 1 %SBTTL 'Definitions'
50      0049 1
51      0050 1
52      0051 1 | INCLUDE FILES:
53      0052 1
54      0053 1
55      0054 1 LIBRARY 'SYSSLIBRARY:STARLET';      ! VMS common definitions
56      0055 1
57      0056 1 REQUIRE 'LIBS:CNFDEF.R32';
58      0147 1
59      0148 1 REQUIRE 'SRC$:CNFPREFIX.REQ';
60      0245 1
61      0246 1
62      0247 1
63      0248 1 | BUILTIN functions
64      0249 1
65      0250 1
66      0251 1 BUILTIN
67      0252 1   INSQUE,           ! INSQUE instruction
68      0253 1   REMQUE;          ! REMQUE instruction
69      0254 1
70      0255 1
71      0256 1 | TABLE OF CONTENTS:
72      0257 1
73      0258 1
74      0259 1 FORWARD ROUTINE
75      0260 1
76      0261 1   CNF$BUFR_NICE_MSG,      ! Buffer NICE messages into IRB
77      0262 1   CNF$SEND_NICE_MSG;    ! Send the NICE message stored in IRB
78      0263 1
79      0264 1
80      0265 1 | EXTERNAL REFERENCES:
81      0266 1
82      0267 1
83      0268 1 EXTERNAL ROUTINE
84      0269 1
85      0270 1 ! Module CNFMAIN
86      0271 1
87      0272 1   CNF$TRACE,          ! Log messages to log file
88      0273 1   CNF$LOG_DATA,        ! Log formatted data to log file
89      0274 1   CNF$GET_ZVM,         ! Get zeroed virtual memory
90      0275 1   CNF$FREE_VM,        ! Free virtual memory
91      0276 1
92      0277 1 ! Module CNFINTRPT
93      0278 1
94      0279 1   CNF$CLOSE_REQUEST_LINK, ! After an unsuccessful IO shut down the link and deallocate control
95      0280 1   CNF$SOLICIT_REQUEST,
96      0281 1
97      0282 1 ! Module CNFWORKQ
98      0283 1
99      0284 1   WKQ$ADD_WORK_ITEM;   ! Add work to work queue
100     0285 1
101     0286 1
102     0287 1 EXTERNAL LITERAL
103     0288 1
104     0289 1   CNF$LINK;          ! Error on logical link
105     0290 1
```

CNFSEND
V04-000

DECnet Ethernet Configurator Module
Definitions

F 1
16-Sep-1984 02:06:26
14-Sep-1984 12:49:53

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFSEND.B32;1

Page 3
(2)

: 106 0291 1 CNF\$C_ASYNCH_EFN;
: 107 0292 1
: 108 0293 1
: 109 0294 1 EXTERNAL
: 110 0295 1
: 111 0296 1 CNF\$CL_LOGMASK : BITVECTOR [32];
: 112 0297 1

```
114 0298 1 %SBTTL 'CNF$BUFR_NICE_MSG Buffer the response message'  
115 0299 1 GLOBAL ROUTINE CNF$BUFR_NICE_MSG (IRB, MSG, DEALLOCATE_LEN) =  
116 0300 1  
117 0301 1 ++  
118 0302 1 FUNCTIONAL DESCRIPTION:  
119 0303 1  
120 0304 1 Place the NICE message onto a linked list of messages stored  
121 0305 1 in the IRB for later transmission to the connectee.  
122 0306 1  
123 0307 1 FORMAL PARAMETERS:  
124 0308 1  
125 0309 1 irb Interrupt Request Block, contains context for  
126 0310 1 I/O with connectee.  
127 0311 1  
128 0312 1 msg address of buffer containing NICE message to be  
129 0313 1 stored in the IRB.  
130 0314 1  
131 0315 1 deallocate_len Length of message to be deallocated after transmission.  
132 0316 1 Some messages are stored in buffers allocated in VM  
133 0317 1 and must be deallocated after transmission. Others  
134 0318 1 reside on the stack or in OWN storage and shouldn't  
135 0319 1 be deallocated.  
136 0320 1  
137 0321 1 IMPLICIT INPUTS:  
138 0322 1 NONE  
139 0323 1  
140 0324 1 IMPLICIT OUTPUTS:  
141 0325 1 NONE  
142 0326 1  
143 0327 1 ROUTINE VALUE:  
144 0328 1 COMPLETION CODES:  
145 0329 1 Success  
146 0330 1  
147 0331 1 --  
148 0332 1  
149 0333 2 BEGIN  
150 0334 2 MAP  
151 0335 2 IRB : REF BBLOCK;  
152 0336 2 MSG : REF BBLOCK;  
153 0337 2  
154 0338 2 LOCAL  
155 0339 2 BNR : REF BBLOCK,  
156 0340 2 STATUS;  
157 0341 2  
158 0342 2  
159 0343 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE').  
160 0344 2 $DESCRIPTOR ('cnf$bufr_nice_msg'));  
161 0345 2  
162 0346 2  
163 0347 2 EXECUTE (CNF$GET ZVM (%REF (BNR$C_LENGTH), BNR) );  
164 0348 2 BNR [BNR$L_ADDRESS] = .MSG [DSC$A_POINTER];  
165 0349 2 BNR [BNR$W_LENGTH] = .MSG [DSC$W_LENGTH];  
166 0350 2  
167 0351 2 BNR [BNR$W_FREE_LEN] = .DEALLOCATE_LEN;  
168 0352 2 INSQUE (.BNR, .IRB [IRB$L_BNR_BLINK]);  
169 0353 2  
170 0354 2 RETURN TRUE;
```

! Get space to store header and message
! Record message buffer pointer
! Record message length
! Queue message onto IRB

: 171

0355 1 END:

! Routine cnf\$bufr_nice_msg

```

        .TITLE  CNFSEND DECnet Ethernet Configurator Module
        .IDENT  \V04-000\

        .PSECT  SPLITS,NOWRT,NOEXE,2

        45 43 41 52 54 00000 P.AAB: .ASCII  \TRACE\
        00000005 00005 .BLKB  3
        00000000 00008 P.AAA: .LONG   5
        00000000 0000C .ADDRESS P.AAB
        6D 5F 65 63 69 6E 5F 72 66 75 62 24 66 6E 63 00010 P.AAD: .ASCII  \cnf$bufr_nice_msg\
        67 73 0001F .BLKB  3
        00000011 00024 P.AAC: .LONG   17
        00000000 00028 .ADDRESS P.AAD

        .EXTRN  CNF$TRACE, CNF$LOG DATA
        .EXTRN  CNF$GET_ZVM, CNF$FREE_VM
        .EXTRN  CNF$CLOSE REQUEST_LINK
        .EXTRN  CNF$SOLICIT REQUEST
        .EXTRN  WKQSADD WORK_ITEM
        .EXTRN  CNF$LINK, CNF$C_ASYNC_EFN
        .EXTRN  CNF$GL_LOGMASK

        .PSECT  $CODE$,NOWRT,2

        5E          0000 0000 .ENTRY  CNF$BUFR_NICE_MSG, Save nothing      0299
        0000: 08 C2 00002  SUBL2  #8, SP
        0000: CF 9F 00005  PUSHAB P.AAC
        0000: CF 9F 00009  PUSHAB P.AAA
        0000G CF          01 DD 0000D  PUSHL  #1
        0000G CF          03 FB 0000F  CALLS  #3, CNF$TRACE
        04 AE          04 AE 9F 00014  PUSHAB BNR
        04 AE          10 D0 00017  MOVL   #16, 4(SP)
        0000G CF          04 AE 9F 0001B  PUSHAB 4(SP)
        21          02 FB 0001E  CALLS  #2, CNF$GET_ZVM
        51          50 E9 00023  BLBC   STATUS, 1$      0347
        51          04 AE D0 00026  MOVL   BNR, R1
        50          08 AC D0 0002A  MOVL   MSG, R0
        OC A1          04 A0 D0 0002E  MOVL   4(R0), 12(R1)
        08 A1          60 B0 00033  MOVW   (R0), 8(R1)
        0A A1          0C AC B0 00037  MOVW   DEALLOCATE_LEN, 10(R1)
        50          04 AC D0 0003C  MOVL   IRB, R0
        18 B0          61 0E 00040  INSQUE (R1), 024(R0)
        50          01 D0 00044  MOVL   #1, R0
        04 00047 1$:    RET

```

: Routine Size: 72 bytes, Routine Base: \$CODE\$ + 0000

```
173 0356 1 %SBTTL 'CNFSBUFR_ERR_MSG Buffer the error response message'  
174 0357 1 GLOBAL ROUTINE CNFSBUFR_ERR_MSG  
175 0358 1 (IRB, ERR_CODE, ERR_DETAIL, ERR_TXT_COD, ERR_TXT_DSC) =  
176 0359 1  
177 0360 1 ++  
178 0361 1 FUNCTIONAL DESCRIPTION:  
179 0362 1 Build the error response message and buffer it for later return to  
180 0363 1 the connectee.  
181 0364 1  
182 0365 1 FORMAL PARAMETERS:  
183 0366 1  
184 0367 1  
185 0368 1 irb Interrupt Request Block, contains context for  
186 0369 1 I/O with connectee.  
187 0370 1  
188 0371 1 err_code The error code is returned in the first byte  
189 0372 1 of the NICE response message.  
190 0373 1  
191 0374 1 err_detail The error detail is returned in second and third bytes  
192 0375 1 of the NICE response message.  
193 0376 1  
194 0377 1 err_txt_cod An optional error status, for which the error text  
195 0378 1 will be obtained and buffered  
196 0379 1  
197 0380 1 err_txt_dsc An optional error text which will be buffered  
198 0381 1  
199 0382 1 IMPLICIT INPUTS:  
200 0383 1 NONE  
201 0384 1  
202 0385 1 IMPLICIT OUTPUTS:  
203 0386 1 NONE  
204 0387 1  
205 0388 1 ROUTINE VALUE:  
206 0389 1 COMPLETION CODES:  
207 0390 1 Always return success  
208 0391 1  
209 0392 1 SIDE EFFECTS:  
210 0393 1  
211 0394 1 Error message is built and buffered and stored in the IRB  
212 0395 1  
213 0396 1 --  
214 0397 1  
215 0398 2 BEGIN  
216 0399 2 BUILTIN  
217 0400 2 NULLPARAMETER; ! To check for optional parameters  
218 0401 2  
219 0402 2 LITERAL  
220 0403 2 DECODED_TXT_BUflen = 256; ! Maximum size of text string for decoded error messages  
221 0404 2  
222 0405 2 MAP  
223 0406 2 ERR_TXT_DSC : REF BBLOCK;  
224 0407 2  
225 0408 2 LOCAL  
226 0409 2 ERR_TXTLEN, ! Either the length of the text decoded from the ERR_TXT_COD  
227 0410 2 or the length of optional text in ERR_TXT_DSC  
228 0411 2 MSG : ! Descriptor of message being built  
229 0412 2 BBLOCK [DSC$C_S_BLN].
```

```
230 0413 2 STATUS,
231 0414 2 DECODED_TXT_LEN,
232 0415 2 DECODED_TXT_BUFDSC : ! Length of message text decoded from ERR_TXT_COD
233 0416 2 BBLOCK [DSC$C_S_BLN], ! Descriptor of message text decoded from ERR_TXT_COD
234 0417 2 DECODED_TXT_BUF : ! Buffer for message text decoded from ERR_TXT_COD
235 0418 2 BBLOCK [DECODED_TXT_BUflen];
236 0419 2
237 0420 2
238 0421 2 CNF$TRACE (DBGSC_TRACE, $DESCRIPTOR('TRACE'),
239 0422 2 $DESCRIPTOR ('cnf$bufr_err_msg'));
240 0423 2
241 0424 2 MSG = 0; ! Zero descriptor length and type fields
242 0425 2 ERR_TXTLEN = 0;
243 0426 2
244 0427 2
245 0428 2 | Set up descriptor and buffer for decoding the optional error code
246 0429 2
247 0430 2 DECODED_TXT_LEN = 0;
248 0431 2 DECODED_TXT_BUFDSC = 0;
249 0432 2 DECODED_TXT_BUFDSC [DSC$W_LENGTH] = DECODED_TXT_BUflen;
250 0433 2 DECODED_TXT_BUFDSC [DSC$A_POINTER] = DECODED_TXT_BUF;
251 0434 2
252 0435 2 IF NOT NULLPARAMETER (4)
253 0436 2 THEN
254 0437 2
255 0438 2 | Parameter ERR_TXT_COD was provided so decode it
256 0439 2
257 0440 3 P BEGIN
258 0441 3 P $GETMSG (MSGID = .ERR_TXT_COD,
259 0442 3 MSGLEN = DECODED_TXT_LEN,
260 0443 3 BUFADR = DECODED_TXT_BUFDSC);
261 0444 3
262 0445 3 END
263 0446 2 ELSE
264 0447 2
265 0448 2 | Optional parameter ERR_TXT_COD was not provided so see if
266 0449 2 | ERR_TXT_DSC was and use it instead.
267 0450 2
268 0451 3 BEGIN
269 0452 3 IF NOT NULLPARAMETER (5)
270 0453 3 THEN
271 0454 3 | ERR_TXTLEN = .ERR_TXT_DSC [DSC$W_LENGTH];
272 0455 2 END;
273 0456 2
274 0457 2 MSG [DSC$W_LENGTH] = 4 + .ERR_TXTLEN;
275 0458 2 EXECUTE (CNF$GET_ZVM (MSG [DSC$W_LENGTH], MSG [DSC$A_POINTER]) ); ! Get space to store message
276 0459 2
277 0460 2 (.MSG [DSC$A_POINTER]) <0, 8> = .ERR_CODE; ! First byte is error code
278 0461 2 (.MSG [DSC$A_POINTER]) <8, 16> = .ERR_DETAIL; ! Second and third bytes are error detail
279 0462 2 (.MSG [DSC$A_POINTER]) <24, 8> = .ERR_TXTLEN; ! Fourth byte is length of optional error text
280 0463 2
281 0464 2 IF .ERR_TXTLEN GTR 0
282 0465 2 THEN
283 0466 2
284 0467 2 | Optional text was provided either by decoding ERR_TXT_COD
285 0468 2 | or in ERR_TXT_DSC, so append it to error message being built
286 0469 2
```

```

287 0470 2      CHSMOVE (.ERR_TXTLEN,
288 0471 3          (IF .DECODED_TXT_LEN GTR 0
289 0472 3              THEN
290 0473 3                  DECODED_TXT_BUF
291 0474 3              ELSE
292 0475 3                  .ERR_TXT_DSC [DSC$A_POINTER]
293 0476 2              )
294 0477 2          (.MSG [DSC$A_POINTER]) + 4);
295 0478 2
296 0479 2      CNFSBUFR_NICE_MSG (.IRB, MSG, .MSG [DSC$W_LENGTH]); ! Place the error message in the IRB for later trans
297 0480 2      RETURN TRUE;
298 0481 1      END;
                                         ! Routine cnf$bufr_err_msg

```

```

.PSECT $SPLIT$,NOWRT,NOEXE,2
45 43 41 52 54 0002C P.AAF: .ASCII \TRACE\ ;
00000005 00031 P.AAE: .BLKB 3 ;
00000000 00034 P.AAE: .LONG 5 ;
00000000 00038 P.AAH: .ADDRESS P.AAF ;
66 6E 63 0003C P.AAH: .ASCII \cnf$bufr_err_msg\ ;
67 0004B P.AAG: .LONG 16 ;
00000010 0004C P.AAG: .ADDRESS P.AAH ;
00000000 00050 .EXTRN SYSSGETMSG
.PSECT $CODE$,NOWRT,2
5E      003C 00000 .ENTRY CNFSBUFR_ERR_MSG, Save R2,R3,R4,R5 0357
FEEC    CE 9E 00002 MOVAB -276(SP), SP
0000'   CF 9F 00007 PUSHAB P.AAG 0422
0000'   CF 9F 0000B PUSHAB P.AAE 0421
01      DD 0000F PUSHL #1
0000G  CF      F8      03 FB 00011 CALLS #3, CNF$TRACE
                    AD D4 00016 CLRL MSG 0424
                    52 D4 00019 CLRL ERR_TXTLEN 0425
                    6E D4 0001B CLRL DECODED_TXT_LEN 0430
                    AD D4 0001D CLRL DECODED_TXT_BUFDSC 0431
F0      AD 0100 8F B0 00020 MOVW #256, DECODED_TXT_BUFDSC 0432
F4      AD 04 AE 9E 00026 MOVAB DECODED_TXT_BUF, DECODED_TXT_BUFDSC 0433
                    6C 91 0002B CMPB (AP), #4 0435
                    1D 1F 0002E BLSSU 1$ 0436
                    10 AC D5 00030 TSTL 16(AP) 0437
                    18 13 00033 BEQL 1$ 0438
7E      0F 7D 00035 MOVQ #15, -(SP) 0443
                    F0 AD 9F 00038 PUSHAB DECODED_TXT_BUFDSC
                    0C AE 9F 0003B PUSHAB DECODED_TXT_LEN
                    10 AC DD 0003E PUSHL ERR_TXT_COD
00000000G 00      05 FB 00041 CALLS #5, SYSSGETMSG
52      6E D0 00048 MOVL DECODED_TXT_LEN, ERR_TXTLEN 0444
                    0E 11 0004B BRB 2$ 0435
                    05 6C 91 0004D 1$: CMPB (AP), #5 0452
                    09 1F 00050 BLSSU 2$ 0453
                    14 AC D5 00052 TSTL 20(AP) 0454
                    04 13 00055 BEQL 2$ 0455

```

F8 AD	52	14	BC 3C 00057	MOVZWL	ERR TXT DSC, ERR TXTLEN	0454
	52	04	A1 0005B	ADDW3	#4, ERR_TXTLEN, MSG	0457
		FC	AD 9F 00060	PUSHAB	MSG+4	0458
		F8	AD 9F 00063	PUSHAB	MSG	
0000G	CF	02	FB 00066	CALLS	#2, CNF\$GET_ZVM	
	3E	50	E9 0006B	BLBC	STATUS, 6\$	
	51	FC	AD D0 0006E	MOVL	MSG+4, R1	0460
	61	08	AC 90 00072	MOVB	ERR_CODE, (R1)	0461
01	A1	0C	AC B0 00076	MOVW	ERR_DETAIL, 1(R1)	0462
03	A1	52	90 0007B	MOVB	ERR_TXTLEN, 3(R1)	0464
		52	D5 0007F	TSTL	ERR_TXTLEN	
		17	15 00081	BLEQ	5\$	
		6E	D5 00083	TSTL	DECODED_TXT_LEN	0471
		06	15 00085	BLEQ	3\$	
	50	04	AE 9E 00087	MOVAB	DECODED_TXT_BUF, R0	
		08	11 0008B	BRB	4\$	
04	A1	50	14 AC D0 0008D	3\$: MOVL	ERR TXT DSC, R0	0475
		50	04 A0 D0 00091	MOVL	4(R0), R0	
		60	52 28 00095	4\$: MOVC3	ERR_TXTLEN, (R0), 4(R1)	0477
		7E	F8 AD 3C 0009A	5\$: MOVZWL	MSG, -(SP)	0479
		F8	AD 9F 0009E	PUSHAB	MSG	
		04	AC DD 000A1	PUSHL	IRB	
FF0F	CF	03	FB 000A4	CALLS	#3, CNF\$BUFR_NICE_MSG	
	50	01	D0 000A9	MOVL	#1, R0	0480
		04	000AC	6\$: RET		0481

: Routine Size: 173 bytes, Routine Base: \$CODE\$ + 0048

```
300 0482 1 %SBTTL 'CNF$SEND_NICE_MSG send the response message'  
301 0483 1 GLOBAL ROUTINE CNF$SEND_NICE_MSG (IRB) =  
302 0484 1  
303 0485 1 !++  
304 0486 1 | FUNCTIONAL DESCRIPTION:  
305 0487 1  
306 0488 1 | Called first from CNF$PROCESS_REQUEST, a routine executed off  
307 0489 1 | the work queue. There will be an assumption at this point that  
308 0490 1 | the IOSB contains a success from a previous interaction over the  
309 0491 1 | channel. The first NICE message in the IRB is QIO'd and from  
310 0492 1 | then on CNF$SEND_NICE_MSG is executed as an AST routine upon QIO  
311 0493 1 | completion. The IOSB is checked before another NICE message  
312 0494 1 | is removed and QIO'd.  
313 0495 1  
314 0496 1 | When the list is empty then a CNF$SOLICIT_REQUEST is placed on  
315 0497 1 | the work queue.  
316 0498 1  
317 0499 1 | FORMAL PARAMETERS:  
318 0500 1  
319 0501 1 | irb Interrupt Request Block, contains context for  
320 0502 1 | I/O with connectee.  
321 0503 1  
322 0504 1 | IMPLICIT INPUTS:  
323 0505 1  
324 0506 1  
325 0507 1 | IMPLICIT OUTPUTS:  
326 0508 1  
327 0509 1 | NONE  
328 0510 1  
329 0511 1 | ROUTINE VALUE:  
330 0512 1 | COMPLETION CODES:  
331 0513 1  
332 0514 1 | NONE  
333 0515 1  
334 0516 1 | SIDE EFFECTS:  
335 0517 1  
336 0518 1 | NONE  
337 0519 1  
338 0520 1 !--  
339 0521 1  
340 0522 2 | BEGIN  
341 0523 2 | MAP  
342 0524 2 | IRB : REF BBLOCK;  
343 0525 2  
344 0526 2 | LOCAL  
345 0527 2 | BNR : REF BBLOCK.  
346 0528 2 | STATUS;  
347 0529 2  
348 0530 2  
349 0531 2 | CNF$TRACE (DBGSC_TRACE, $DESCRIPTOR('TRACE'),  
350 0532 2 | $DESCRIPTOR('cnf$send_nice_msg'));  
351 0533 2  
352 0534 2  
353 0535 2 | The first time thru, the IOSB should contain a success status  
354 0536 2 | from a previous I/O on the channel. For subsequent passes,  
355 0537 2 | CNF$SEND_NICE_MSG will be called to send the next NICE message.  
356 0538 2 | Then the IOSB will contain the status for the previous send.
```

```
357 0539 2 | and then if there was an error on the channel, the channel will
358 0540 2 | will be closed.
359 0541 2
360 0542 2 STATUS = .IRB [IRBSW_IOSB];
361 0543 2 IF NOT .STATUS
362 0544 2 THEN
363 0545 2 BEGIN
364 0546 2 IF (.STATUS NEQ SSS_LINKABORT) AND
365 0547 4 (.STATUS NEQ SSS_LINKEXIT)
366 0548 3 THEN
367 0549 3 SIGNAL (CNFS_LINK, 0, .STATUS);
368 0550 3 WKQ$ADD_WORK_ITEM (CNFS CLOSE REQUEST_LINK, .IRB);
369 0551 3 RETURN TRUE;
370 0552 2 END;
371 0553 2
372 0554 2
373 0555 2 | Check to see if this call of the routine follows a call in which a
374 0556 2 | buffered message was sent. In that case it should now be
375 0557 2 | deallocated. This would not be the case if this was the first
376 0558 2 | call to this routine.
377 0559 2
378 0560 2 IF .IRB [IRBSW_FREE_LEN] NEQ 0
379 0561 2 THEN
380 0562 3 BEGIN
381 0563 3 EXECUTE (CNFSFREE_VM (%REF(.IRB [IRBSW_FREE_LEN]), IRB [IRBSL_NICE_ADR]) );
382 0564 3 IRB [IRBSW_FREE_LEN] = 0; ! Keep it clean to avoid confusion
383 0565 2 ! when another set of messages are buffered.
384 0566 2
385 0567 2
386 0568 2 | If there are any Buffered NICE Responses in the linked list
387 0569 2 | then remove the next and set it up for sending. Deallocate the header.
388 0570 2
389 0571 2 IF .IRB [IRBSL_BNR_FLINK] NEQ IRB [IRBSL_BNR_FLINK]
390 0572 2 THEN
391 0573 3 BEGIN
392 0574 3 BNR = .IRB [IRBSL_BNR_FLINK];
393 0575 3 REMQUE (.BNR, STATUS);
394 0576 3 IRB [IRBSW_NICE_LEN] = .BNR [BNRSW_LENGTH];
395 0577 3 IRB [IRBSL_NICE_ADR] = .BNR [BNRSL_ADDRESS];
396 0578 3 IRB [IRBSW_FREE_LEN] = .BNR [BNRSW_FREE_LEN];
397 0579 3 EXECUTE (CNFSFREE_VM (%REF(BNR$C_LENGTH), BNR) );
398 0580 3 END
399 0581 2 ELSE
400 0582 2
401 0583 2 | No more NICE messages buffered
402 0584 2 | Last request has been completed, solicit another.
403 0585 2
404 0586 3 BEGIN
405 0587 3 WKQ$ADD_WORK_ITEM (CNFSOLICIT_REQUEST, .IRB);
406 0588 3 RETURN TRUE;
407 0589 2 END;
408 0590 2
409 0591 2
410 0592 2 | If NICE debug logging is enabled, print the NICE message about
411 0593 2 | to be sent.
412 0594 2
413 0595 2 IF .CNF$GL_LOGMASK [DBG$C_NICE]
```

```

414 0596 2 THEN
415 0597 3 BEGIN
416 0598 3 LOCAL DATA_DSC : BBLOCK [DSC$C_S_BLN];
417 0599 3 DATA_DSC = 0;
418 0600 3 DATA_DSC [DSC$W_LENGTH] = .IRB [IRB$W_NICE_LEN];
419 0601 3 DATA_DSC [DSC$A_POINTER] = .IRB [IRB$C_NICE_ADR];
420 0602 3 CNF$[OG_DATA (DBGSC_NICE, $DESCRIPTOR ('NICE transmitted'), 0, DATA_DSC)];
421 0603 2 END;
422 0604 2
423 0605 2
424 0606 2 | Send the NICE message
425 0607 2
426 P 0608 2 STATUS = $QIO
427 P 0609 2 (
428 P 0610 2 FUNC = IOS_WRITEVBLK,
429 P 0611 2 CHAN = .IRB [IRB$W_CHAN],
430 P 0612 2 EFN = CNF$C_ASYNCH_EFN,
431 P 0613 2 IOSB = IRB [IRB$W_IOSB],
432 P 0614 2 ASTADR = CNF$SEND_NICE_MSG,
433 P 0615 2 ASTPRM = .IRB,
434 P 0616 2 P1 = .IRB [IRB$L_NICE_ADR],
435 P 0617 2 P2 = .IRB [IRB$W_NICE_LEN]
436 P 0618 2 );
437 P 0619 2
438 P 0620 2 IF NOT .STATUS
439 P 0621 2 THEN SIGNAL (CNF$LINK, 0, .STATUS);
440 P 0622 2
441 P 0623 2 RETURN TRUE;
442 P 0624 1 END; ! Routine cnf$send_nice_msg

```

```

        .PSECT $SPLIT$,NOWRT,NOEXE,2

        45 43 41 52 54 00054 P.AAJ: .ASCII \TRACE\
        00059
        00000005 0005C P.AAI: .BLKB 3
        00000000 00060 .LONG 5
        .ADDRESS P.AAJ
        6D 5F 65 63 69 6E 5F 64 6E 65 73 24 66 6E 63 00064 P.AAL: .ASCII \cnf$send_nice_msg\
        67 73 00073
        00075
        00000011 00078 P.AAK: .BLKB 3
        00000000 0007C .LONG 17
        .ADDRESS P.AAL
        65 74 74 69 6D 73 6E 61 72 74 20 45 43 49 4E 00080 P.AAN: .ASCII \NICE transmitted\
        64 0008F
        00000010 00090 P.AAM: .LONG 16
        00000000 00094 .ADDRESS P.AAN

        .EXTRN SY$SQIO

        .PSECT $CODE$,NOWRT,2

        55 00000000G 00 003C 00000 .ENTRY CNF$SEND_NICE_MSG, Save R2,R3,R4,R5
        54 00000000G 8F D0 00002 MOVAB LIB$SIGNAL, R5
        5E 00000000 10 C2 00010 MOVL #CNF$ LINK, R4
        0000' CF 9F 00013 SUBL2 #16, 5P
        PUSHAB P.AAK

```

		0000'	CF	9F	00017	PUSHAB	P.AAI	0531
		01	DD	0001B	PUSHL	#1		
		03	FB	0001D	CALLS	#3, CNF\$TRACE		
0000G	CF	04	AC	00022	MOVL	IRB, R2	0542	
	52	0C	A2	32 00026	CVTL	12(R2), STATUS		
	53		53	E8 0002A	BLBS	STATUS, 2\$	0543	
	23		53	D1 0002D	CMPL	STATUS, #8420	0546	
000020E4	8F		12	13 00034	BEQL	1\$		
000020F4	8F		53	D1 00036	CMPL	STATUS, #8436	0547	
			09	13 0003D	BEQL	1\$		
			53	DD 0003F	PUSHL	STATUS	0549	
			7E	D4 00041	CLRL	-(SP)		
			54	DD 00043	PUSHL	R4		
		65	03	FB 00045	CALLS	#3, LIB\$SIGNAL		
			52	DD 00048	1\$:	PUSHL	0550	
			55	11 0004A	PUSHAB	R2		
0000G	CF	1E	A2	B5 00050	BRB	6\$		
			17	13 00053	TSTW	30(R2)	0560	
			20	A2 9F 00055	BEQL	4\$		
04	AE	1E	A2	32 00058	PUSHAB	32(R2)	0563	
		04	AE	9F 0005D	CVTL	30(R2), 4(SP)		
0000G	CF		02	FB 00060	PUSHAB	4(SP)		
	01		50	E8 00065	CALLS	#2, CNF\$FREE_VM		
			04	00068	BLBS	STATUS, 3\$		
			1E	A2 B4 00069	RET			
	50	14	A2	9E 0006C	CLRW	30(R2)	0564	
	50	14	A2	D1 00070	MOVAB	20(R2), R0	0571	
			29	13 00074	CMPL	20(R2), R0		
04	AE	14	A2	D0 00076	BEQL	5\$		
	53	04	BE	0F 0007B	MOVL	20(R2), BNR	0574	
	51	04	AC	D0 0007F	REMQUE	ABNR, STATUS	0575	
	50	04	AE	D0 00083	MOVL	IRB, R1	0576	
1C	A1	08	A0	7D 00087	MOVQ	BNR, R0		
		04	AE	9F 0008C	PUSHAB	8(R0), 28(R1)		
04	AE		10	D0 0008F	MOVL	BNR	0579	
		04	AE	9F 00093	PUSHAB	#16, 4(SP)		
0000G	CF		02	FB 00096	CALLS	#2, CNF\$FREE_VM		
	0E		50	E8 0009B	BLBS	STATUS, 7\$		
			04	0009E	RET			
			52	DD 0009F	5\$:	PUSHL	0587	
0000G	CF	0000G	CF	9F 000A1	PUSHAB	R2		
0000G	CF		02	FB 000A5	CALLS	CNF\$SOLICIT_REQUEST		
			60	11 000AA	BRB	#2, WKQ\$ADD_WORK_ITEM		
21		0000G	CF	E9 000AC	7\$:	BLBC	0588	
			08	AE D4 000B1	CLRL	CNF\$GL_LOGMASK, 8\$	0595	
			50	04 AC D0 000B4	MOVL	DATA_DSC	0599	
08	AE	1C	A0	B0 000B8	MOVW	IRB, R0	0600	
0C	AE	20	A0	D0 000BD	MOVL	28(R0), DATA_DSC		
		08	AE	9F 000C2	PUSHAB	32(R0), DATA_DSC+4	0601	
			7E	D4 000C5	CLRL	DATA_DSC	0602	
			0000'	CF 9F 000C7	PUSHAB	-(SP)		
			7E	D4 000CB	CLRL	P.AAM		
0000G	CF		04	FB 000CD	CALLS	-(SP)		
			7E	7C 000D2	8\$:	CLRQ	0618	
			7E	7C 000D4	CLRQ	-(SP)		
	50	04	AC	D0 000D6	CLRQ	-(SP)		
					MOVL	IRB, R0		

7E	1C	A0	32	000DA	CVTWL	28(R0), -(SP)
	20	A0	DD	000DE	PUSHL	32(R0)
	50	DD	000E1	PUSHL	R0	
	FF19	CF	9F	000E3	PUSHAB	CNF\$SEND_NICE_MSG
	0C	A0	9F	000E7	PUSHAB	12(R0)
	30	DD	000EA	PUSHL	#48	
7E	0A	A0	32	000EC	CVTWL	10(R0), -(SP)
00000000G	00	8F	DD	000FO	PUSHL	#CNF\$C_ASYNCH_EFN
53	0C	FB	000F6	CALLS	#12, \$\$\$\$QIO	
09	50	DO	000FD	MOVL	R0, STATUS	
	53	E8	00100	BLBS	STATUS, 9\$	
	53	DD	00103	PUSHL	STATUS	
	7E	D4	00105	CLRL	-(SP)	
	54	DD	00107	PUSHL	R4	
65	03	FB	00109	CALLS	#3, LIB\$SIGNAL	
50	01	DO	0010C	9\$:	MOVL	#1, R0
			04	0010F	RET	

; Routine Size: 272 bytes, Routine Base: \$CODE\$ + 00F5

CNFSEND
V04-000

DECnet Ethernet Configurator Module
CNF\$SEND_NICE_MSG send the response message

E 2
16-Sep-1984 02:06:26
14-Sep-1984 12:49:53

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFSEND.B32;1

Page 15
(6)

: 444 0625 1 END
: 445 0626 0 ELUDOM

! End of module CNFSEND

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLIT\$	152	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODE\$	517	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Symbols -----	Pages	Processing
	Total Loaded Percent	Mapped	Time
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776 11 0	581	00:01.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:CNFSEND/OBJ=OBJ\$:CNFSEND MSRC\$:CNFSEND/UPDATE=(ENH\$:CNFSEND)

: Size: 517 code + 152 data bytes
: Run Time: 00:12.4
: Elapsed Time: 00:28.1
: Lines/CPU Min: 3031
: Lexemes/CPU-Min: 22300
: Memory Used: 120 pages
: Compilation Complete

0280 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

